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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,139	10/14/2004	Jun Fujita	121510	1973

7590

04/10/2006

Oliff & Berridge
PO Box 19928
Alexandria, VA 22320

EXAMINER

MAYES, MELVIN C

ART UNIT	PAPER NUMBER
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1734

DATE MAILED: 04/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/511,139	Applicant(s) FUJITA, JUN	
	Examiner Melvin Curtis Mayes	Art Unit 1734	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 8-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 8-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

(1)

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

(2)

Claims 8-18 are rejected under 35 U.S.C. 103(a) as obvious over Bonzo 4,557,773 in view of JAIC 1984, Gipson 4,646,914 and University of Technology Sydney Adhesive Tape Database.

Bonzo discloses a method of fabricating a honeycomb structure comprising: providing an extruded ceramic honeycomb structure; securing a solid covering film to the end face of the honeycomb; forming openings in the film by sources such as laser or intense light; plugging cells in the honeycomb with ceramic cement; and firing the structure and cement. The solid covering film can be masking tape such as one mil thick (0.025 mm, 25 μ m) polyester film such as Scotch Brand Magic Transparent Tape (col. 7, line 3 – col. 11, line 22).

JAIC 1984 teaches that Scotch Brand Magic Mending Tape has an acrylic polymer adhesive (pg. 102):

Gipson teaches that one type of Scotch Brand tape is polyester film tape with an acrylic adhesive (col. 2, lines 51-53).

The University of Technology Sydney Adhesive Tape Database teaches that Scotch Brand tapes of backing and acrylic adhesive have a thickness of adhesive of approximately 0.02 mm (20 μ m).

By providing the masking tape as Scotch Brand tape with polyester film (backing), the tape is provided with an acrylic adhesive because Scotch Brand tapes use acrylic polymer for the adhesive, as evidenced by JAIC 1984 and Gipson.

By providing the masking tape as Scotch Brand tape with acrylic adhesive, the tape is obviously provided with an adhesive thickness of approximately 20 μm , as the University of Technology Sydney Adhesive Tape Database teaches that Scotch Brand tapes are provided with acrylic adhesive thickness of approximately 20 μm . By providing a polyester backing of 25 μm thickness and acrylic adhesive of approximately 20 μm thickness for applying to the honeycomb, a tape (film) of total thickness of approximately 45 μm (in the range of 10-70 μm as claimed in Claim 10) comprising a polyester substrate layer of thickness of 25 μm (in the range of 5-40 μm as claimed in Claim 12) and acrylic adhesive layer of thickness of 20 μm (in the range of 5-40 μm as claimed in Claim 13) is provided, thus providing an adhesive tape having an adhesive force in the range of 3-15 N/25 mm or 10-15 N/25 mm (as measured in accordance with JIS Z0237), as claimed. Because the tape of polyester backing and acrylic adhesive has total thickness and backing and adhesive thicknesses within the ranges set forth as providing adhesive film having adhesive force in the range of 3-15 N/25 mm, the tape of polyester backing and acrylic adhesive as described by Bonzo in view of the teachings of JAIC, Gipson and the University of Technology Sydney Adhesive Tape Database obviously has an adhesive force within the ranges of 3-15 N/25 mm and 10-15 N/25 mm.

Response to Arguments

(3)

Applicant's arguments with respect to claim 8 have been considered but are moot in view of the new ground(s) of rejection.

As set forth in the rejection, Scotch tapes conventionally have acrylic adhesive of thickness of approximately 20 μm . While the prior art may not suggest a range of adhesive force which is desirable to prevent honeycomb breakage and film slippage, the prior art nevertheless discloses or suggests using an adhesive tape which has properties of thicknesses, and thus adhesive force, within the ranges as claimed. The Examiner does not have the means to measure the adhesive force of the tape in accordance with JIS Z0237, however, the materials and thicknesses are similar to that of the adhesive film of Example 2 of Applicant's Table 1. Thus it is reasonable to conclude that the tape has an adhesive force similar to that of Example 2, which is 12.26 N/25 mm.

Conclusion

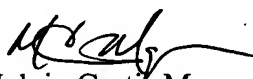
(4)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melvin Curtis Mayes whose telephone number is 571-272-1234. The examiner can normally be reached on Mon-Fri 7:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Fiorilla can be reached on 571-272-1187. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1734

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Melvin Curtis Mayes
Primary Examiner
Art Unit 1734

MCM
April 6, 2006